

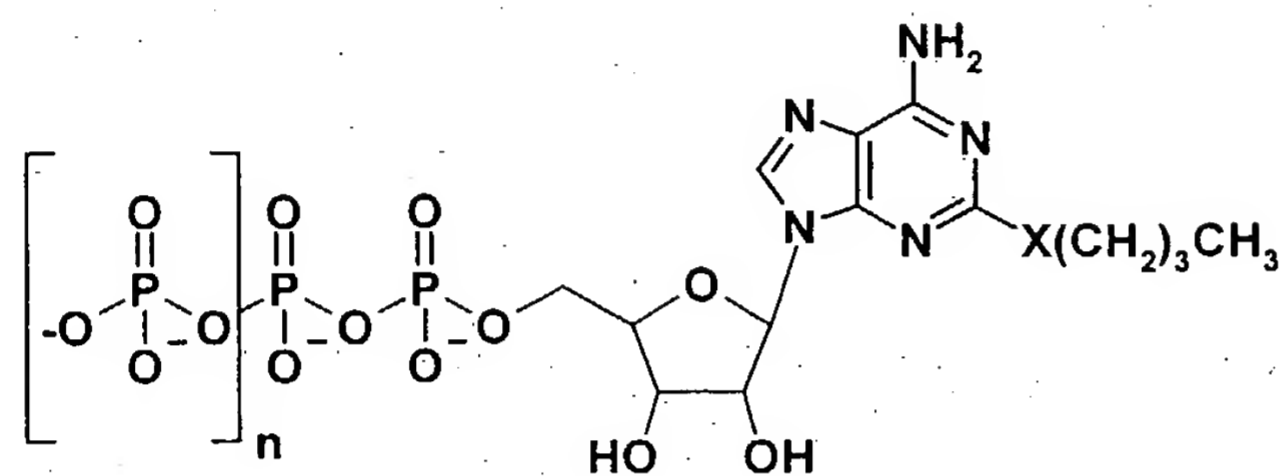
1 a : X = S, Y = O, Z = O, n = 0

b : X = O, Y = CH₂, Z = O, n = 1

c : X = O, Y = O, Z = CH₂, n = 1

d : X = S, Y = CH₂, Z = NH, n = 1

Fig. 1A



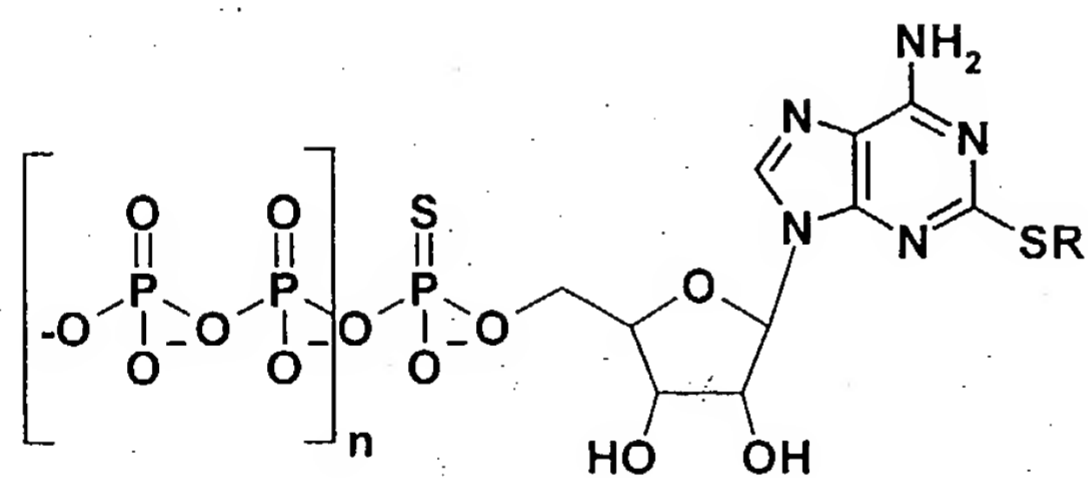
2 a : n = 1, X = S

b : n = 0, X = S

c : n = 1, X = NH

d : n = 1, X = O

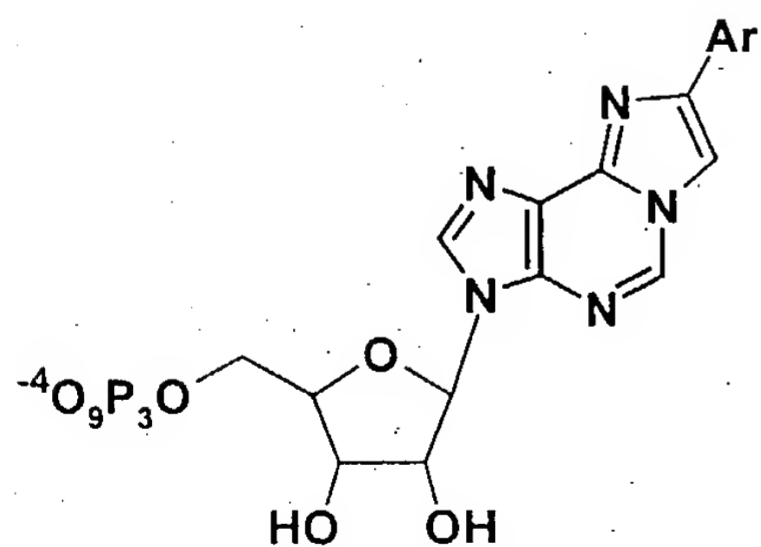
Fig. 1B



3. n = 1, a : R = hexyl, b : R = benzyl

4. n = 0, a : R = hexyl, b : R = benzyl

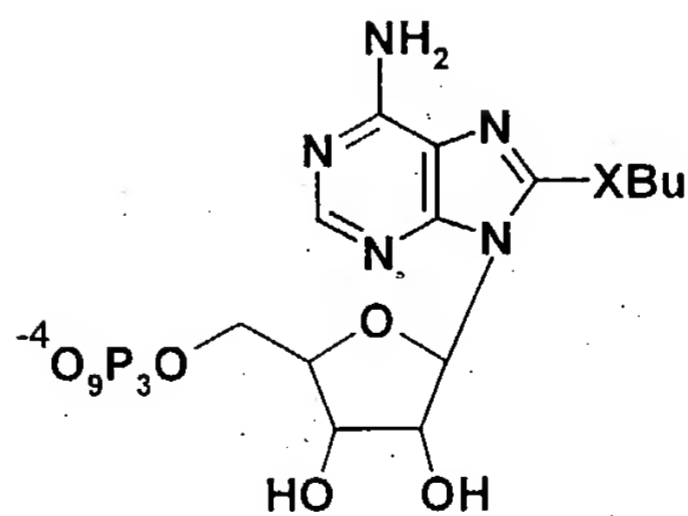
Fig. 1C



5 a : Ar = p-NO₂-C₆H₄

b : Ar = p-NH₂-C₆H₄

Fig. 1D



6. X = S

7. X = NH

8. X = O

Fig. 1E

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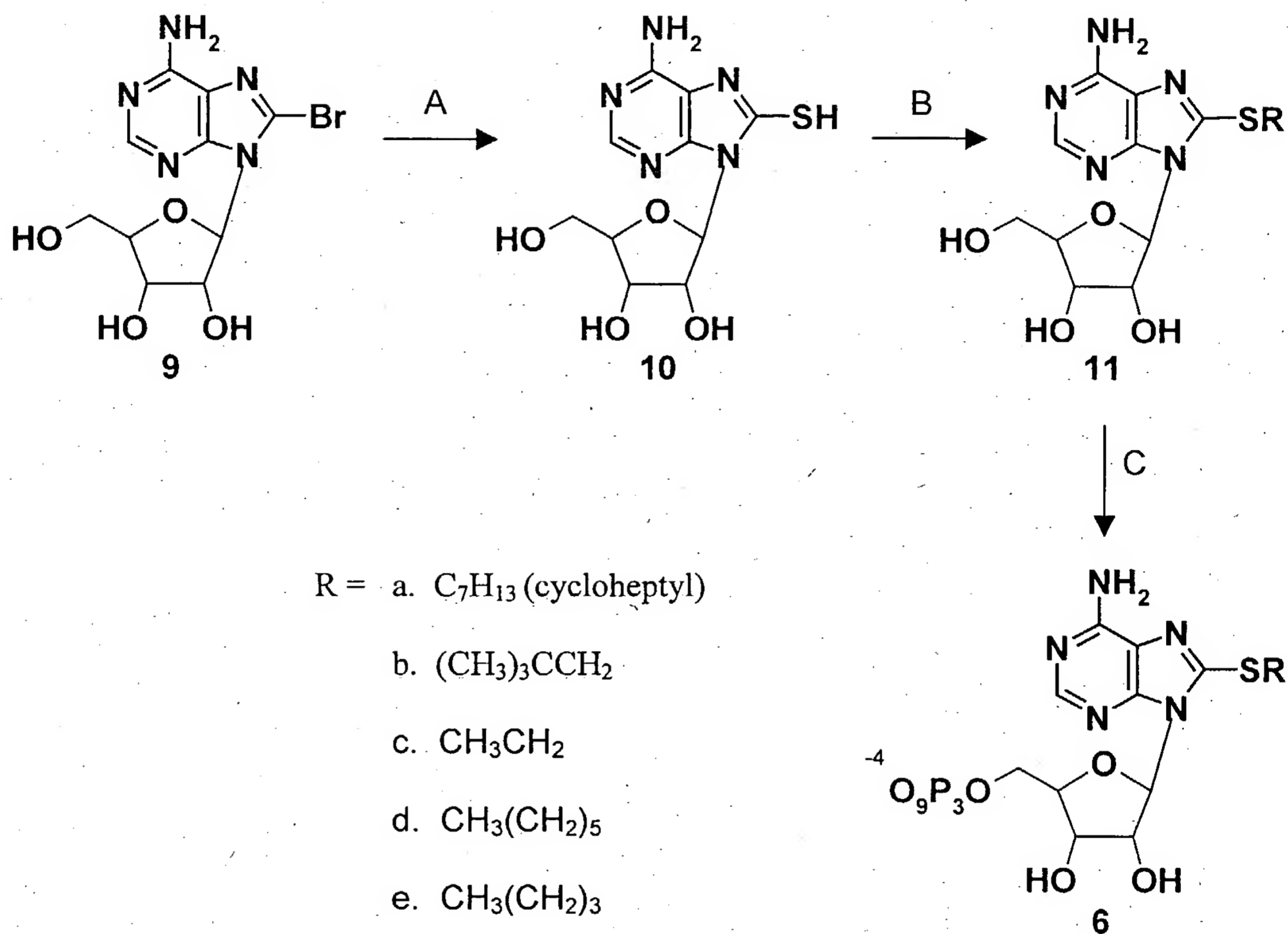
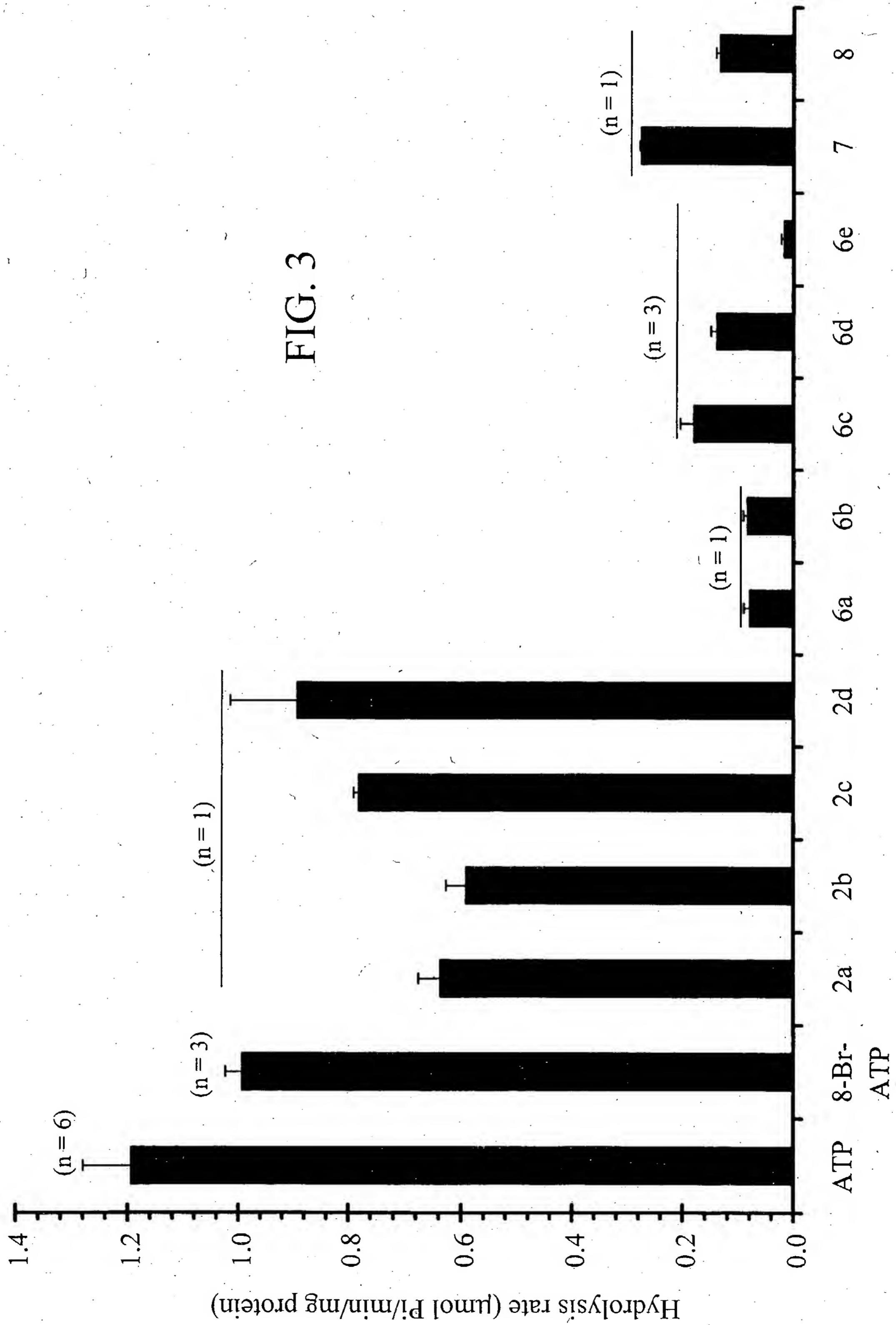


Fig. 2

FIG. 3



Substrates	K _m (μ M)	V _{max} (μ mol/min/mg protein)	Inhibitors	K _i (μ M)
ATP	18 \pm 1	1.65 \pm 0.10	8-cycloheptylS-ATP	31 \pm 2.5
ADP	33 \pm 1	1.30 \pm 0.08	8-CH ₂ tBuS-ATP	45 \pm 2.5
2-BuS-ATP 2a	36 \pm 6	0.83 \pm 0.05	8-hexylS-ATP	16 \pm 2.0
2-BuS-ADP 2b	63 \pm 14	0.94 \pm 0.10	8-BuS-ATP	10 \pm 2.0
2-BuNH-ATP 2c	32 \pm 8	0.99 \pm 0.10		
2-BuO-ATP2d	28 \pm 8	0.82 \pm 0.09		
8-bromo-ATP	22 \pm 5	0.63 \pm 0.04		
8-ethylS-ATP 6c	12 \pm 5	0.30 \pm 0.03		
8-BuNH-ATP 7	20 \pm 7	0.28 \pm 0.03		
8-BuO-ATP 8	26 \pm 5	0.20 \pm 0.01		

FIG. 4

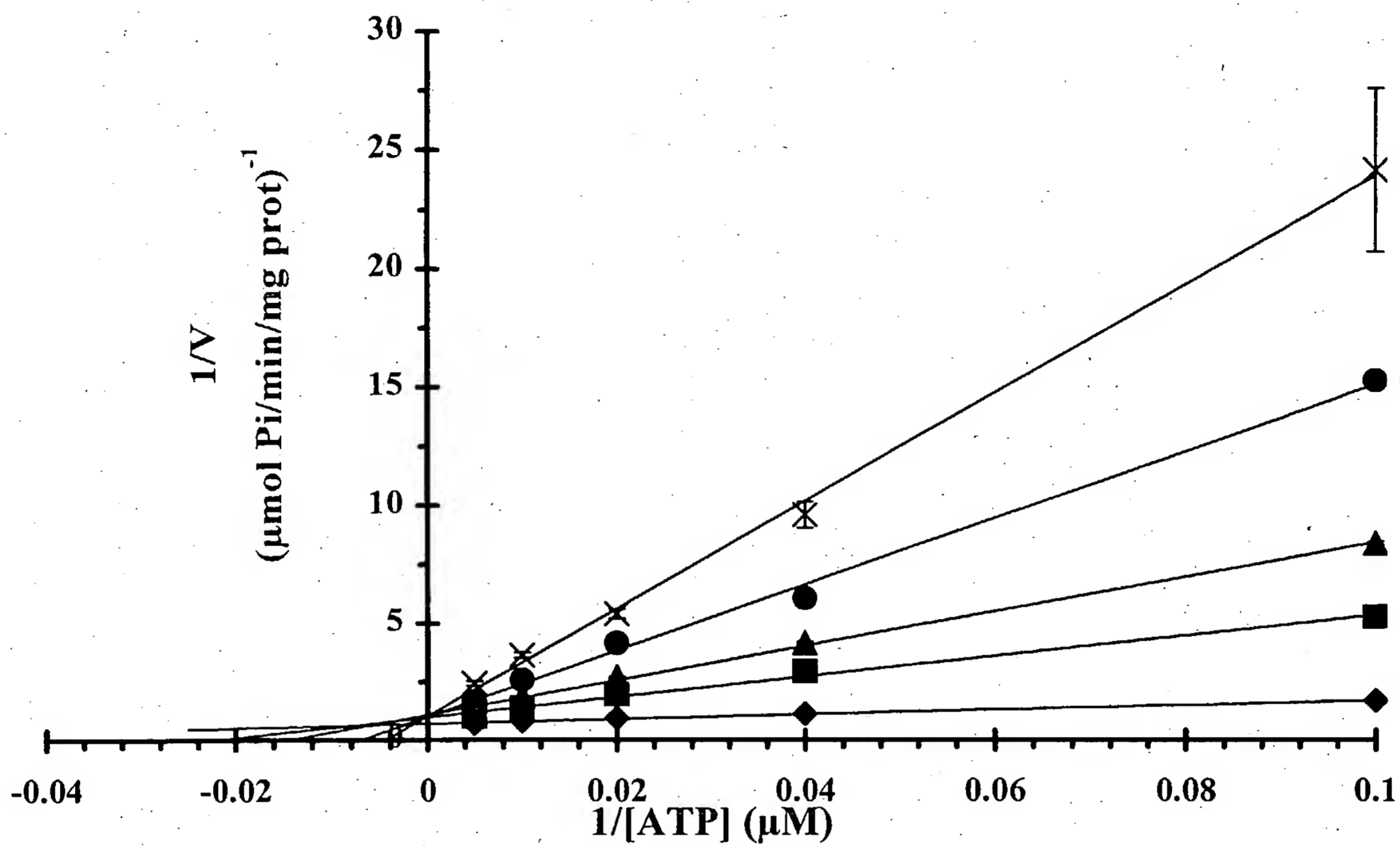


FIG. 5A

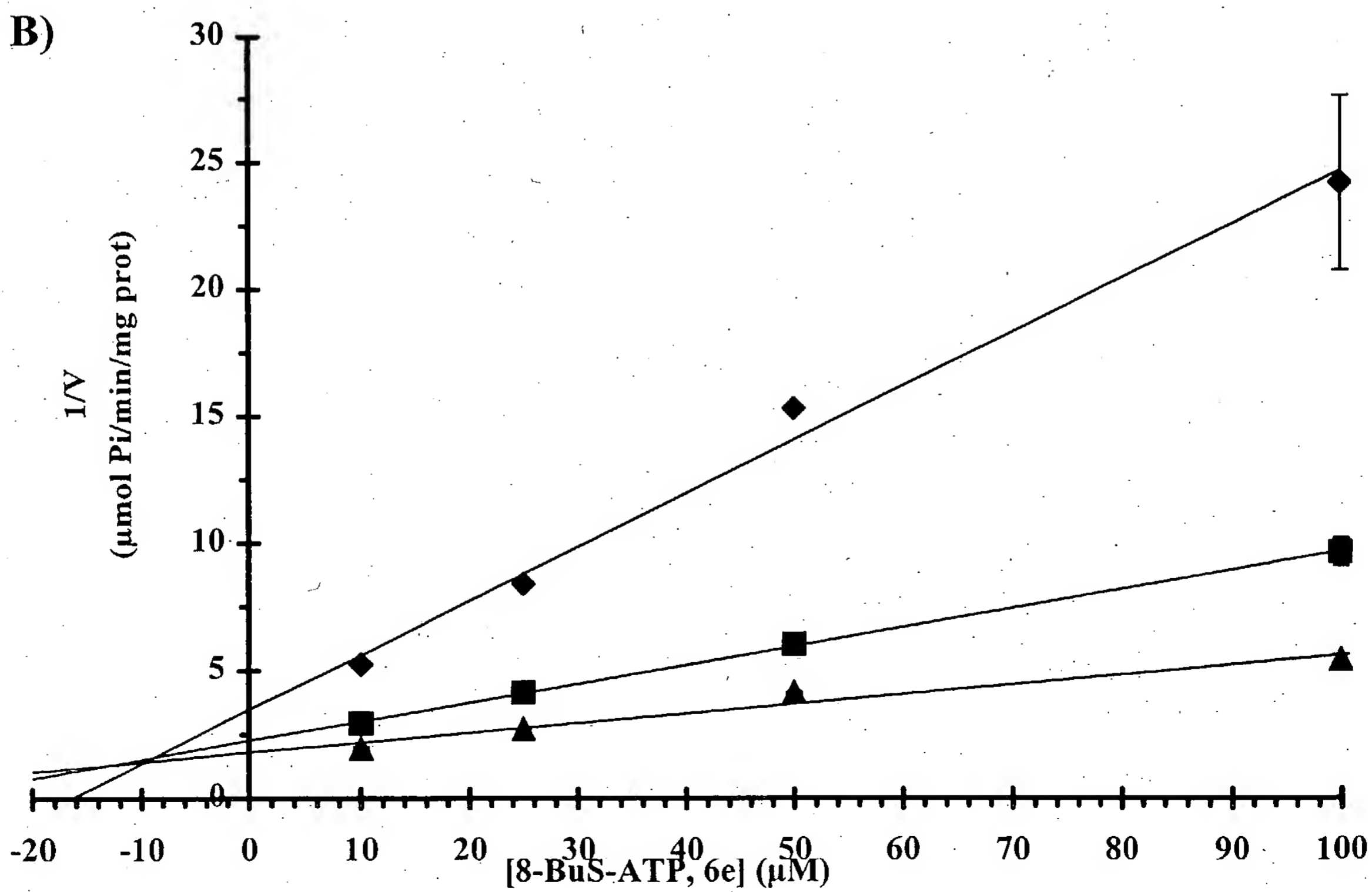


FIG. 5B

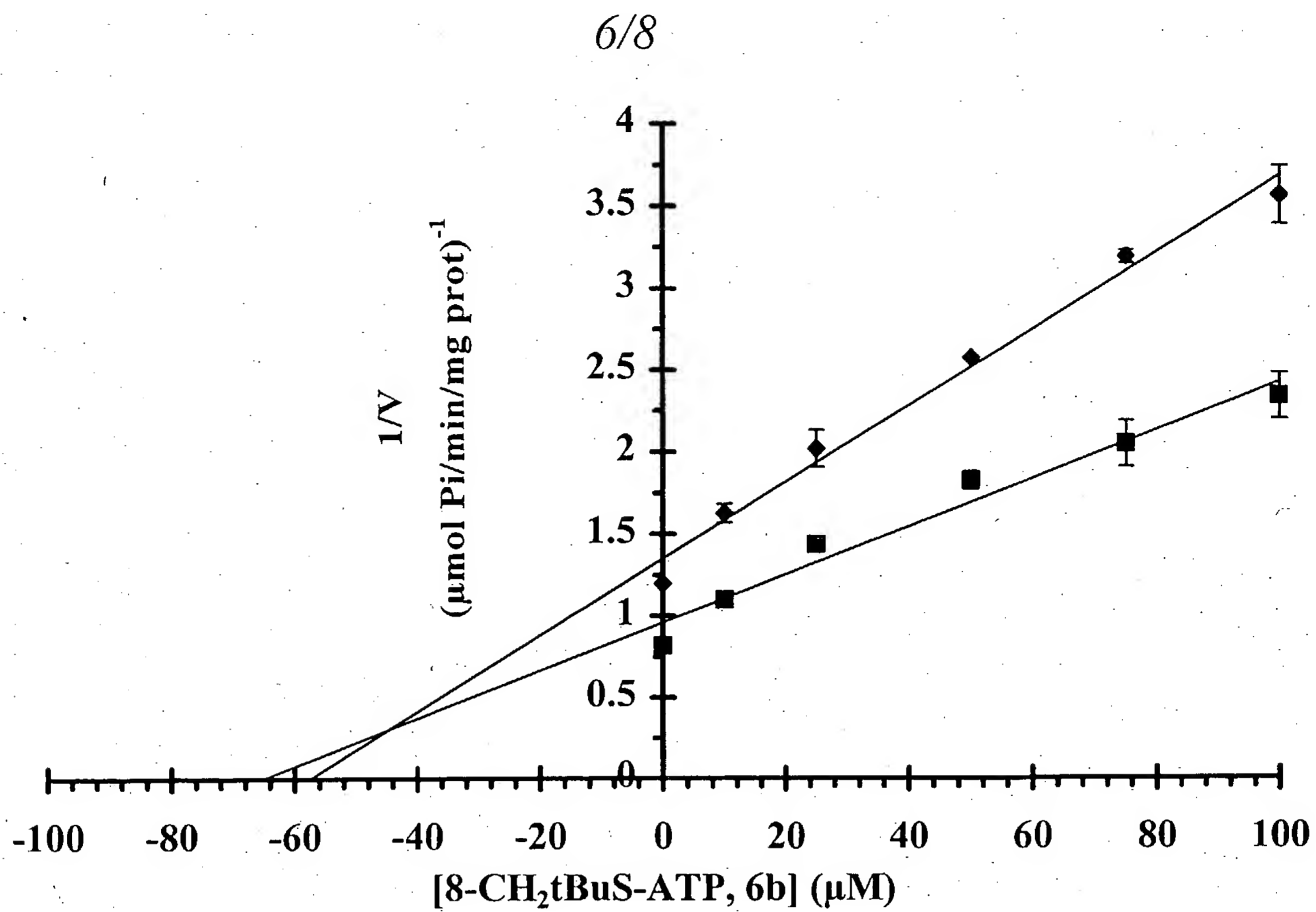


FIG. 6A

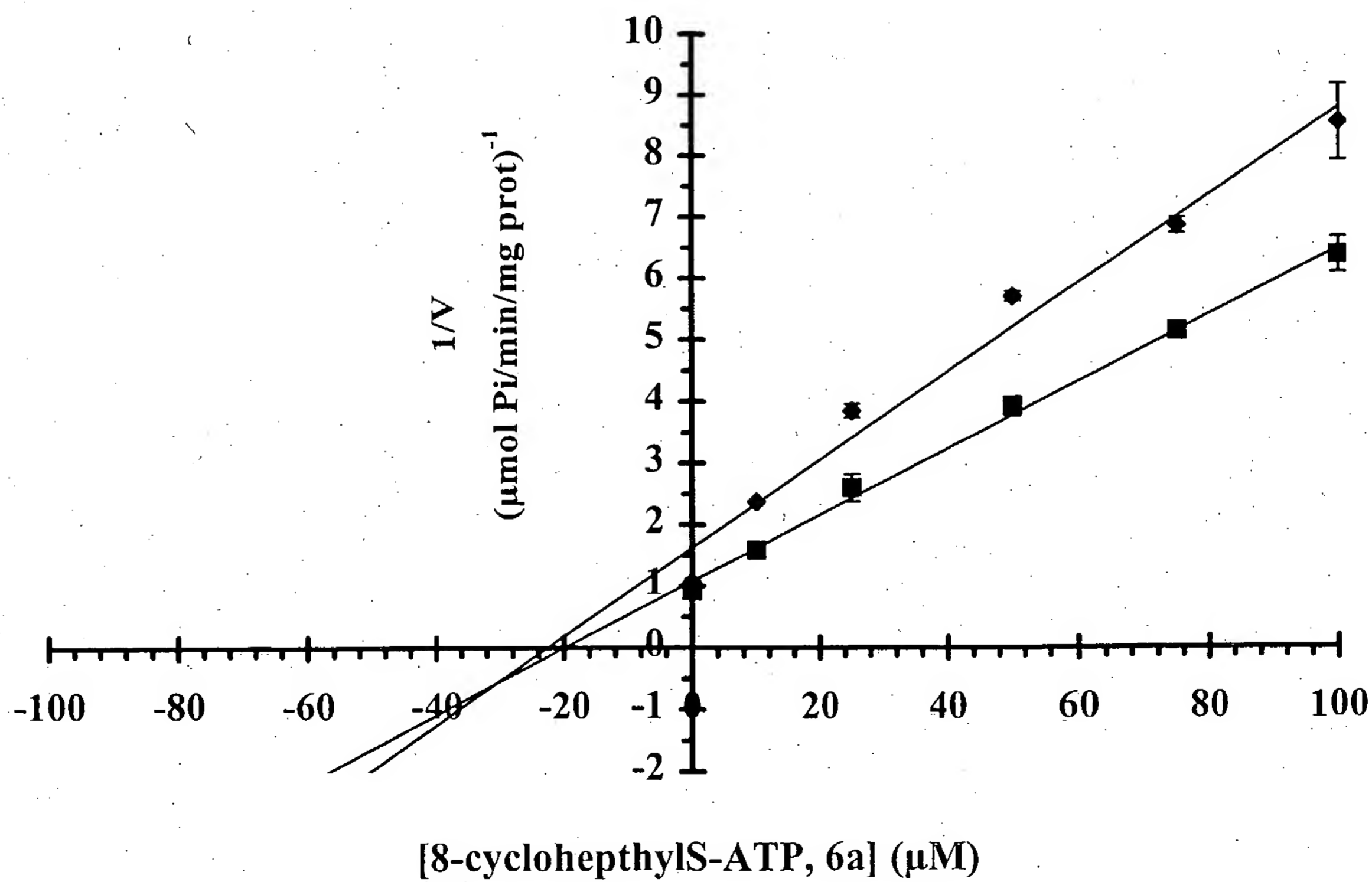


FIG. 6B

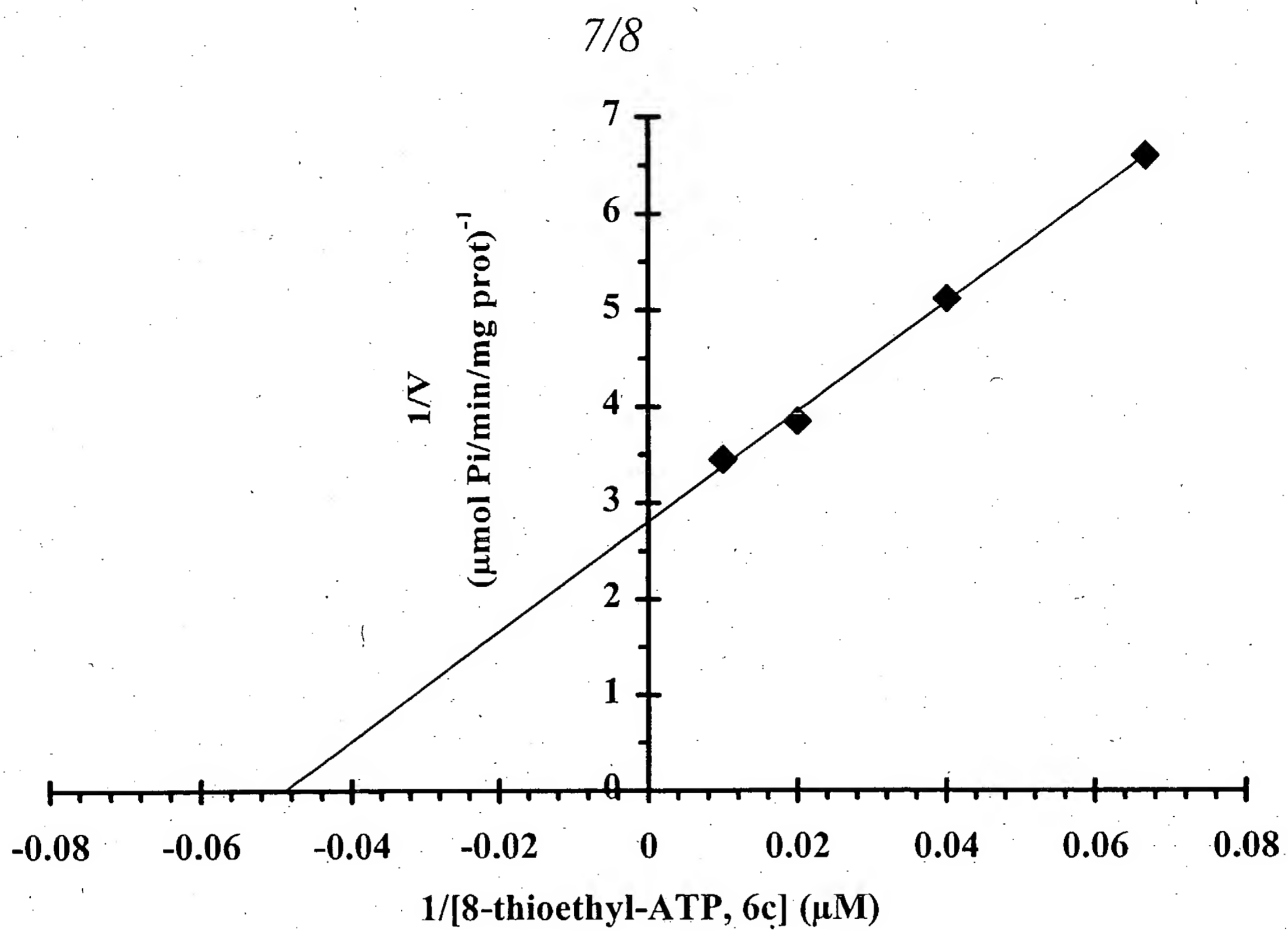


FIG. 7A

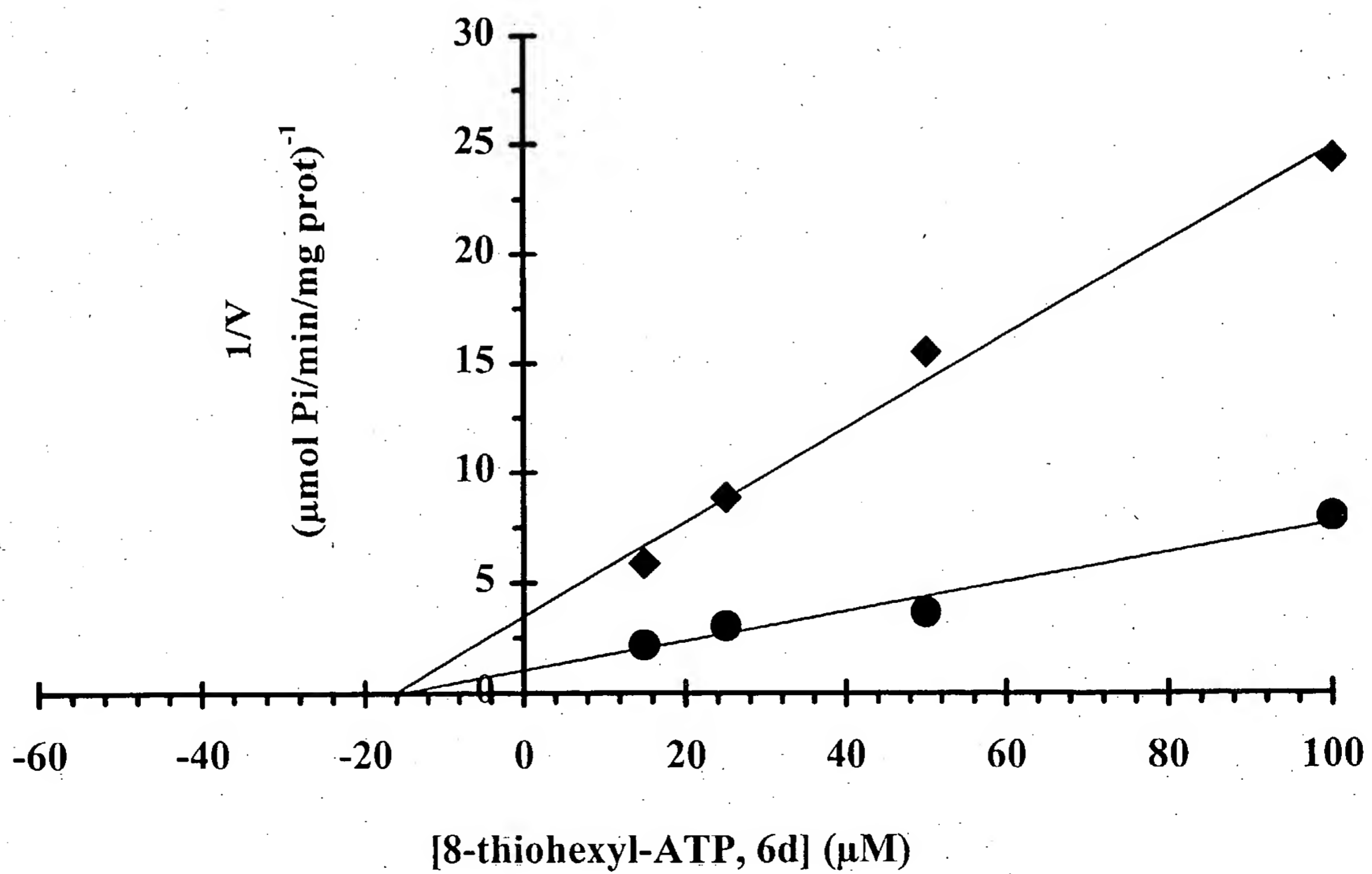


FIG. 7B

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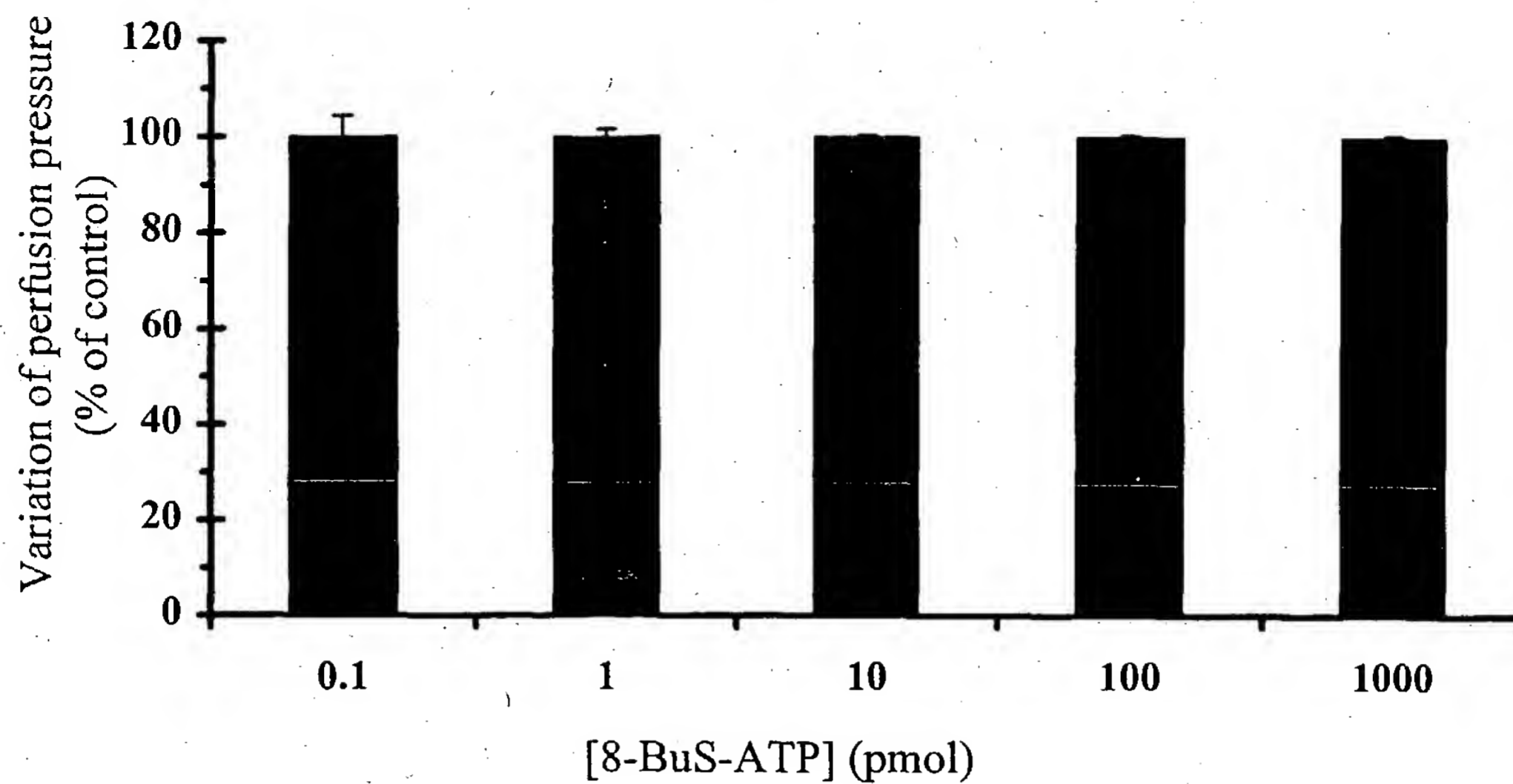


FIG. 8A

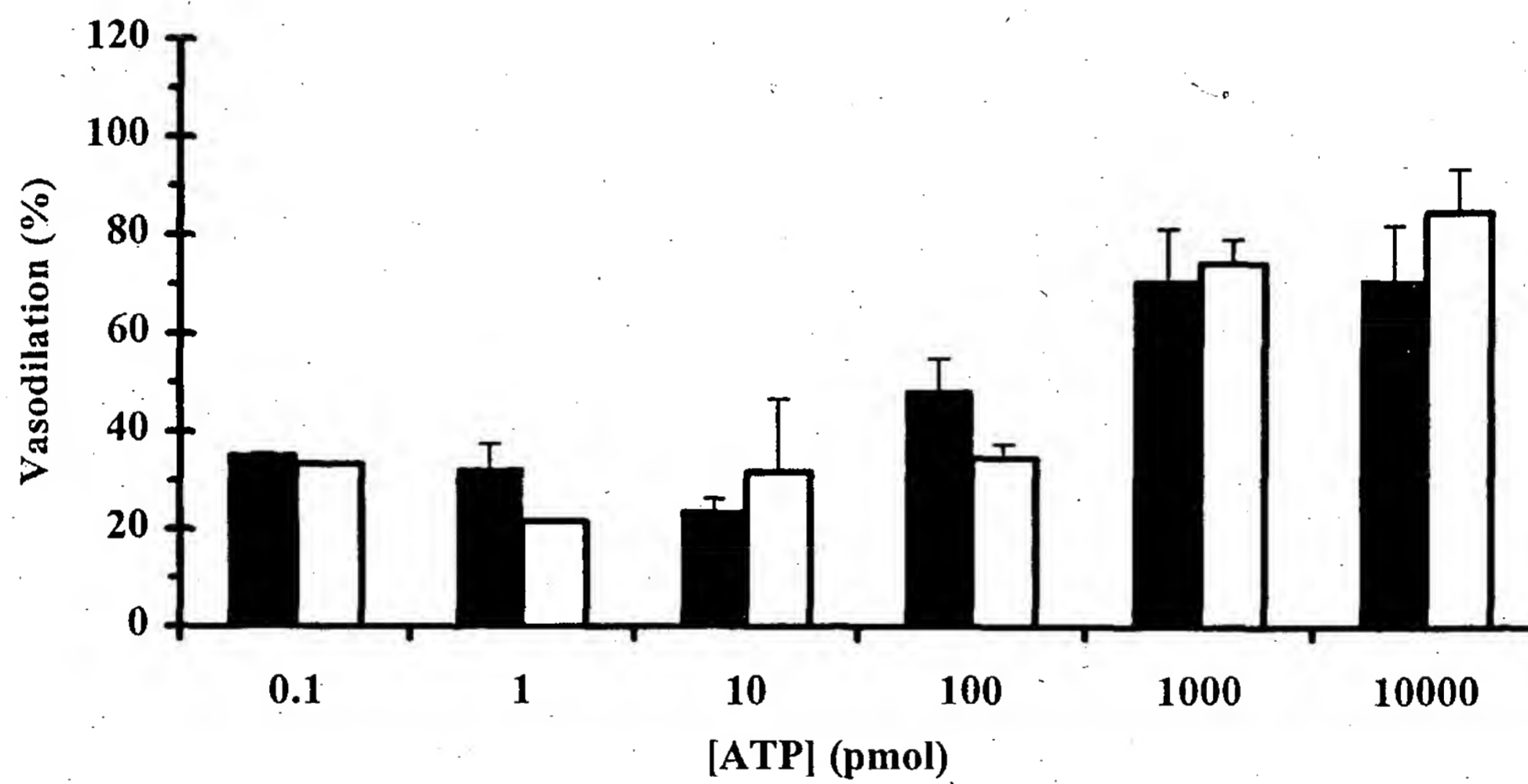


FIG. 8B

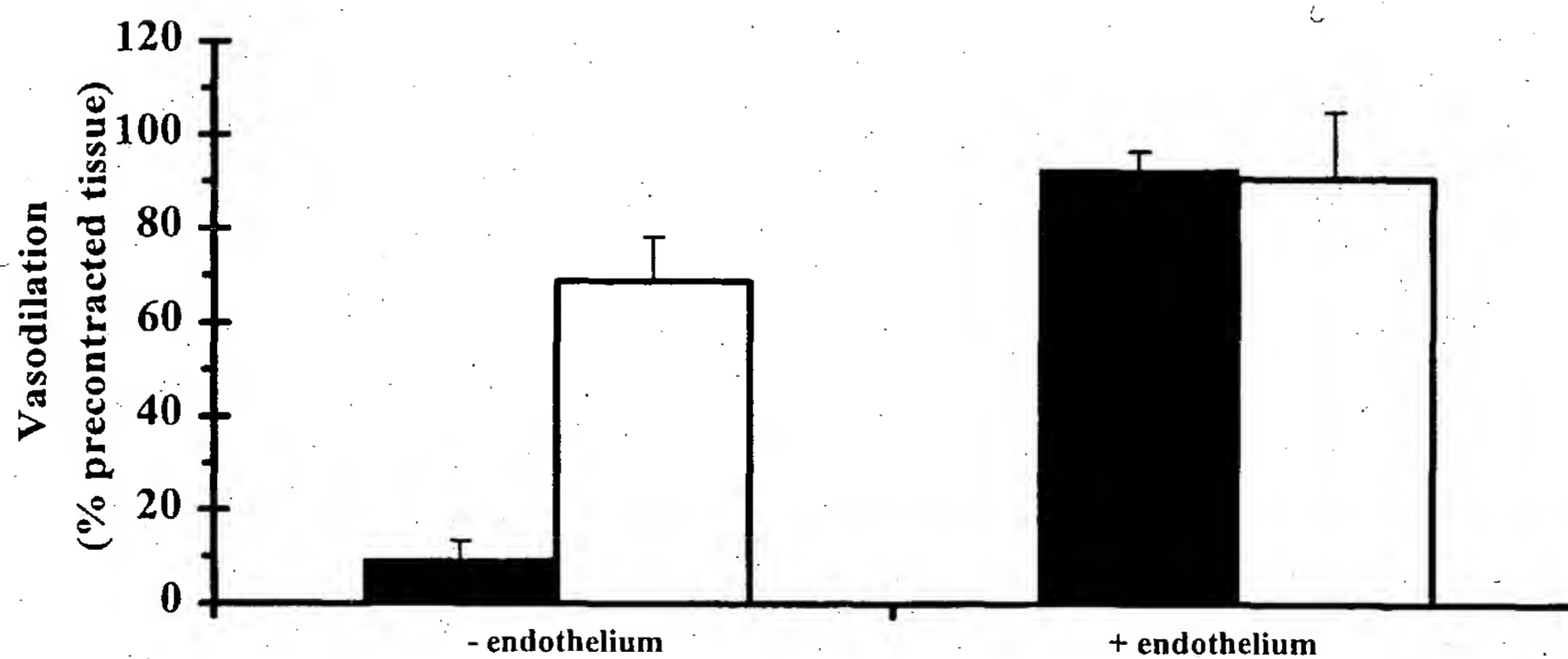


FIG. 8C